

**Amendments to the Specification:****Please amend paragraph 59 as follows:**

--Figure 24 (Families one through nine) shows the segregation of B-I phenotypes among progeny of gl2 B-I wt x Mop2-1 B'. B' individuals heterozygous for Mop2-1 were crossed to B-I and progeny were scored for sheath and tassel pigment levels. A color score of 1-3 is typical of a B' individual, and 6-7 is typical of a B-I individual. The distribution of color scores among progeny from nine B' individuals heterozygous for the Mop2-1 mutation crossed to B-I are shown graphically in panels 24A through 24I. Some families show a clear bimodal distribution whereas others have a higher frequency of intermediate individuals.--

**Please amend paragraph 89 as follows:**

--Maize Nomenclature: Maize nomenclature is the means to identify maize genes and alleles. A gene is designated with lower case italics (*b1*) in maize nomenclature (See also Trends in Genetics "Genetic Nomenclature Guide" (1995) or the web site [http://www.agron.missouri.edu\[\[/\]\]](http://www.agron.missouri.edu/[/]at_maize_nomenclature.html) at maize nomenclature.html). Specific alleles are indicated with an allele designation separated from the gene designation with a hyphen. Dominant alleles are indicated by an upper case gene designation (B-Peru) and recessive alleles by a lower case gene designation (*b1*-K55). Gene products are indicated by all caps and are not italicized (B).--

**Please amend paragraphs 157 to 172 as follows:**

-- Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *mop1-1* with the American Type Culture Collection (ATCC), 10801 University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-3828 and deposited on November 6, 2001.

Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *Mop1-2EMS* with the American Type Culture Collection (ATCC), 10801

University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-3826 and deposited on November 6, 2001.

Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *Mop2-1* with the American Type Culture Collection (ATCC), 0801 University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-4030 and deposited on February 4, 2002.

Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *mop3-1* with the American Type Culture Collection (ATCC), 10801 University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-3829 and deposited on November 6, 2001.

Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *CC2343* with the American Type Culture Collection (ATCC), 10801 University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-3827 and deposited on November 6, 2001.

Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *rmr1-1* with the American Type Culture Collection (ATCC), 10801 University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-3965 and deposited on January 8, 2001.

Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *rmr1-2* with the American Type Culture Collection (ATCC), 10801 University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-3966 and deposited on January 8, 2001.

Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *rmr2-1* with the American Type Culture Collection (ATCC), 10801 University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-3956 and deposited on January 8, 2001.

Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *rmr7-1* with the American Type Culture Collection (ATCC), 10801 University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-3958 and deposited on January 8, 2001.

Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *rmr6-1* with the American Type Culture Collection (ATCC), 10801 University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-3957 and deposited on January 8, 2001.

Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *rmr8-1* with the American Type Culture Collection (ATCC), 10801 University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-3960 and deposited on January 8, 2001.

Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *rmr9-1* with the American Type Culture Collection (ATCC), 10801 University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-3961 and deposited on January 8, 2001.

Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *Mop1-4* with the American Type Culture Collection (ATCC), 10801 University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-3963 and deposited on January 8, 2001.

Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *Mop1-5* with the American Type Culture Collection (ATCC), 10801 University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-3964 and deposited on January 8, 2001.

Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *rmr7-2* with the American Type Culture Collection (ATCC), 10801 University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-3959 and deposited on January 8, 2001.

Applicants have made available to the public without restriction a deposit of at least 2500 seeds of corn *rmr11-1* with the American Type Culture Collection (ATCC), 10801 University Blvd., Manassas, VA 20108~~Rockville, MD 20852~~, which has been assigned ATCC number PTA-3962 and deposited on January 8, 2001.--

**Please amend paragraph 173 as follows:**

--The deposits will be maintained in the ATCC depository, which is a public depository, for a period of 30 years, or 5 years after the most recent request, or for the ~~enforceable~~effective life of the patent, whichever is longer, and will be replaced if a deposit becomes nonviable during that period. Access to this deposit will be available during the pendency of the application to the Commissioner of Patents and Trademarks and persons determined by the Commissioner to be entitled thereto upon request. Additionally, Applicant has satisfied all the requirements of 37 C.F.R. .sctn..sctn.1.801-1.809, including testing by the ATCC upon receipt of the deposit demonstrating viability of the deposited seeds. --

**Please amend paragraph 295 as follows:**

--Molecular Markers Map position of the Mop2-1 mutation was confirmed using simple sequence repeat (SSR) molecular markers. A large number of these PCR-based markers are available for maize ([http://www.agron.missouri.edu\[\[\]\]\\_at\\_ssr.html](http://www.agron.missouri.edu/[/]at_ssr.html)). The SSR markers that are

tightly linked to Mop2-1 and were used to follow Mop2-1 segregation are bnlg1017, bnlg1338 and umc1823.--